

# TRANSPORTATION MANAGEMENT PLAN DATA SHEET

To: Rich Williams  
Project Manager

February 13, 2007  
EA 03198-0C930K  
03-PLA-028-KP 14.79/16.53

From: DOKKEN ENGINEERING



## **KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT ON STATE ROUTE 28 FROM THE SR-267 INTERSECTION TO THE CHIPMUNK STREET INTERSECTION IN THE CITY OF KINGS BEACH, IN PLACER COUNTY**

### **Background**

The project is located in Placer County on State Route 28 in Kings Beach from K.P. 14.19 to K.P. 16.53. The purpose of this project is to improve pedestrian and bicycle mobility, improve water quality and improve the aesthetics of the commercial core through Kings Beach. Improvements include:

- Installing curb, gutter and sidewalk along the length of the project on both sides of SR-28.
- Installing storm water collect and treatment measures along SR-28.
- Installing and modifying traffic signals to improve pedestrian and bicycle mobility across SR-28.

Four geometric alternatives have been developed for this project. Due to the largely similar four alternatives, one traffic management plan has been developed that will address all four alternatives. Once a preferred alternative has been finalized, a traffic management plan will be developed.

## **Recommendation**

Significant traffic delays are not anticipated due to practical construction staging. The following describes construction staging efforts for each of the major project areas.

- **Installation of curb, gutter and sidewalk along SR-28**  
Two lanes of traffic will be maintained at all times through the commercial core of Kings Beach during construction of the new curb, gutter and sidewalk. Lane closure charts will have to be developed prior to P&E.
- **New intersection improvements at local roads**  
Construction of the street/intersection improvements will be required to have at least one lane of traffic available during working hours and no restrictions during the rest of the time.

## **Cost**

For estimating purposes use \$2,310 per delay day (200 days) to estimate the costs that are required for the Transportation Management Plan (TMP) items. These items included Traffic Control Systems, 4 Portable Changeable Message Signs, Maintain Traffic, TMP-Public Information, and 200 days of COZEEP. It is estimated that approximately 20 delay days will occur that require TMP items out of a potential 220 working days so the estimated cost is \$462,000.

## **P & E Requirement**

To complete a TMP for this project, the County will prepare and provide the following to the Office of Traffic Management Planning at least three months prior to P&E: the P&E date, Title Sheet and Project Description, typical cross section(s), layouts, project construction cost estimate, staging or traffic handling plans, estimated number of working days and a contact person.

Recommended by:

\_\_\_\_\_  
Steve Bandirola, Traffic Management Plan Unit

Approved by:

\_\_\_\_\_  
Joe Horton, TMP Manager

Prepared by:

Dokken Engineering  
2365 Iron Point Road  
Folsom, CA 95621  
Phn: 916-858-0642

## District 3 Transportation Management Plan Data Sheet

CO/RTE/-PM	03-PLA-028 KP 14.79/16.53	EA	03198-0C930K
PROJECT LIMIT	In Placer County on SR-28 from the SR-267 Intersection to the Chipmunk Street Intersection, in Kings Beach		
PROJECT DESCRIPTION	Improve pedestrian and bicyclist mobility, improve water quality and improve the aesthetic character of the Kings Beach Commercial Core area.		

A) The project includes the following anticipated closure:  
*(Check all applicable type of facility closures expected.)*

	Highway or Freeway Lanes
	Highway or Freeway Shoulders
	Freeway Connectors
	Freeway Off-ramps
	Freeway On-ramps
x	Local Streets

B) Is it necessary to provide the existing number of lanes throughout the project?  
Yes\_\_\_ No x (If Yes, *Check all applicable strategies.*)

	Temporary Roadway Widening
	Structure Involvement ? Yes ___ No <u>x</u> If "Yes", notify Project Manager.
	Lane Restriping ( Temporary narrow lane widths)
	Roadway Realignment (Detour around work area)
	Median and/or Right Shoulder Utilization
	Use of HOV lane as a Temporary Mixed Flow Lane
	Staging Alternatives ( Explain Below)

C) Calculated Delay

*(To be performed if strategies in Item B do not mitigate congestion resulting from Item A, for all projects anticipated to cause delay in excess of 30 minutes, and for projects on I-5 , I-80, Route 99, Hwy 51, Hwy 50).*

1. Estimated Maximum Individual Vehicle Delay	20	Minutes
2. Existing or Acceptable Individual Vehicle Delay	20	Minutes
3. Estimated Individual Vehicle Delay Requiring Mitigation [(1)-(2)]	0	Minutes
4. Estimated Delay Cost ( Most Applicable )		
q Extended Weekend Closure	\$0	
x q Weekly ( 7 days )	\$0	
5. Estimated Duration of Project Related Delays	250	# Days

6. Cost of Construction Related Delays [(4) x (5)]	\$0
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**D) Preliminary TMP Elements and Cost:**

**1. Public Information** **BEES ITEM NO. 066063**

<b>x</b>	Brochures and Mailers	<b>\$0.60/day (\$300 LS)</b>
	Press Release	
	Paid Advertising	
	Public Information Center/Kiosk	
<b>x</b>	Public Meeting/Speakers Bureau	<b>\$2 /day (\$1000 LS)</b>
	Telephone Hotline	
	Internet	
	Coordinate with CTA and AAA	
	Interaction with Businesses, Schools and Local Agencies	
	Other	
Comments:		

**2. Traveler Information Strategies**

	Changeable Message Signs (Fixed)	
<b>x</b>	Changeable Message Signs (Portable) BEES ITEM CODE NO. 128650 \$260 per day each	<b>\$1040/day</b>
<b>x</b>	Ground Mounted Signs (6 tot)	<b>\$ 3.6/day (\$1800LS)</b>
<b>x</b>	Highway Advisory Radio (existing system)	<b>\$ 0/day</b>
<b>x</b>	Caltrans Highway Information Network (CHIN) (existing)	<b>\$ 0/day</b>
	Bicycles and Pedestrians	
	Other	
Comments:		

**3. Incident Management**

<b>x</b>	Construction Zone Enhanced Enforcement Program (COZEEP) BEES ITEM CODE NO. 1066061 \$65/hour (not used every day)	<b>\$300 /day</b>
	Freeway Service Patrol	
	Traffic Management Team	
	Traffic Surveillance Stations (Loop Detector and CCTV)	
	Other	

#### 4. Construction Strategies

<b>x</b>	Lane Closure Charts	Provided at P&E
	Reversing Traffic Control	
	Total Road Closure	
	Extended Weekend Closure	
	Truck Traffic Restrictions	
<b>x</b>	Reduced Speed Zone	\$ 0/day
	Ramp Closures	
	Incentive and Disincentive	
<b>x</b>	Moveable Barrier	\$ 500/day
<b>x</b>	K-Rail	\$ 75/day
<b>x</b>	Staged Construction	\$ 0/day
<b>x</b>	Traffic Contingency Plans/Emergency Detour Plan	\$ 0/day
	Median Crossover	
	DTM Assistance	
	Other	

#### 5. Demand Management

	HOV Lanes/Ramps (New or Convert)	
	Park and Ride Lots	
	Rideshare Incentives	
	Variable Work Hours	
	Telecommute	
	Ramp Metering (New Installation)	
	Ramp Metering (Maintain Existing)	
	Shuttles	
	Other	

#### 6. Alternate Route Strategies

	Add Capacity to Freeway Connector	
	Street Improvement (widening, traffic signal, etc)	
	Traffic Control Officers	
<b>x</b>	Parking Restrictions	\$25/day
	Detour available	
	Other	

**7. Other Considerations**

	Daily Road User Cost (Attach worksheet if applicable)	
x	Maintain Traffic Estimate/day-BEES ITEM CODE NO. 066070	\$ 159/day
x	Traffic Control Estimate/day-BEES ITEM CODE NO.120100 Cost of K-Rail not included in estimate.	\$ 200/day
	Functions or facilities (stadiums, hospitals, schools, etc.)and Special Events that require consideration.	

<b>TOTAL ESTIMATED COST OF TMP ELEMENTS per day      \$ 2310 per Day</b>
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**Project Notes:**

1. Costs were adjusted using and escalation factor of 3% per year.
2. Cost estimate based on 220 working days and 20 delay days.
3. Placer County Noise Ordinance restricts night work from 8PM to 6AM .
4. Traffic Control/Maintain Traffic costs are based on historical project costs.
5. Portable CMS specified for this project by this estimate is designated for congestion relief as outlined by DD-60. Portable CMS required for other purposes should be included under other specifications.
6. The TMP is a time sensitive document that is subject to change if material changes take place in the final version of the project phase or if changes are required during construction to respond to excessive levels of congestion.
7. Estimated Lane Closure Chart for planning purposes to be provided at P&E.
8. A TMP will be prepared by the County 3 months prior to the P&E milestone and include:
  - Project Cost Estimate
  - Project Plan Sheets
  - Staging and Traffic Handling Plans
  - Number of Working Days

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<b>PREPARED BY:</b> <b>B. Stephenson</b> <b>916-858-0642</b>	<b>Dokken Engineering</b>	<b>DATE</b>	<b>09/29/06</b>
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## District 3 - Traffic Operations

### Transportation Management Plan Unit

LANE CLOSURE CHART NO. 1 OF 2

Date:	9/29/06
Prepared By:	R. Lester
Count Station:	
Mo/Yr Data:	

## Lane Closure Chart Provided for Planning Purposes ONLY.

EA:	03198-0C930	PROJECT LOCATION:		Pla-28- KP 14.8/16.5 (PM 9.2/10.3)						
COUNTY		RTE		DESCRIPTION	KP	(PM)		DESCRIPTION	KP	(PM)
CLOSURE LIMITS :	FRE	28	FROM	Intersection	14.8	9.2	TO	Intersection	16.5	10.3
TYPE OF WORK:		Intersection Improvements, Curb Gutter and Sidewalk Placement, Storm Drain System Overhaul, Corridor Re-striping								
TYPE OF FACILITY:		4-Lane Arterial			EST. SINGLE OPEN LANE CAPACITY IN VPH:					
PERCENT PASSENGER CARS:										
PERCENT TRUCKS:										

DIRECTION:		Both	LANE REQUIREMENTS AND HOURS OF WORK																								Labor Day - July 1	
			AM												PM													
			Midnight	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Midnight	
Monday through Thursday			R	R	R	R	R	R																		R	R	
Friday			R	R	R	R	R	R																		R	R	
Saturday			R	R	R	R	R	R																		R	R	
Sunday			R	R	R	R	R	R																		R	R	

### LEGEND:

**R** A MINIMUM OF ONE PAVED TRAFFIC LANE SHALL BE OPENED FOR USE BY PUBLIC TRAFFIC (REVERSING CONTROL)

NO WORK THAT INTERFERES WITH PUBLIC TRAFFIC SHALL BE ALLOWED



Date:	09/26/06
Prepared By:	R .Lester
Count Station:	
Mo/Yr Data:	

LANE CLOSURE CHART NO. 2 OF 2

## Lane Closure Chart Provided for Planning Purposes ONLY.

EA:	03198-0C930	PROJECT LOCATION:	Pla-28- KP 14.8/16.5 (PM 9.2/10.3)							
	COUNTY	RTE		DESCRIPTION	KP	(PM)		DESCRIPTION	KP	(PM)
<u>CLOSURE LIMITS:</u>	PLA	28	FROM	Intersection	14.8	9.2	TO	Intersection	16.5	10.3
<u>TYPE OF WORK:</u>	Intersection Improvements, Curb Gutter and Sidewalk Placement, Storm Drain System Overhaul, Corridor Re-striping									
<u>TYPE OF FACILITY:</u>	4-Lane Arterial				<u>EST. SINGLE OPEN LANE CAPACITY IN VPH:</u>					
<u>PERCENT PASSENGER CARS:</u>										
<u>PERCENT TRUCKS:</u>										

DIRECTION:		Both		LANE REQUIREMENTS AND HOURS OF WORK																								July 1 - Labor Day																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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